

520

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/520,521

Source: Pg

Date Processed by STIC: 1/24/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/520,521

CRF Edit Date: 1/27/06
Edited by: AR

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:

inserted a hard return after <1507 line
sequence 37- in a.a. 61 (met), deleted extra space between
"me" and "t"



PCT

RAW SEQUENCE LISTING

DATE: 01/27/2006

PATENT APPLICATION: US/10/520,521

TIME: 11:52:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01272006\J520521.raw

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3 <110> APPLICANT: Bernard, Dominique
4     Mehul, Villejuif
5     L'OREALL'OREAL
7 <120> TITLE OF INVENTION: USE OF ASPARTIC PROTEASES IN COSMETICS AND THERAPEUTICS
9 <130> FILE REFERENCE: 032487-010
11 <140> CURRENT APPLICATION NUMBER: 10/520,521
12 <141> CURRENT FILING DATE: 2005-01-07
14 <150> PRIOR APPLICATION NUMBER: PCT/FR03/002151
15 <151> PRIOR FILING DATE: 2003-07-09
17 <150> PRIOR APPLICATION NUMBER: FR 02 08613
18 <151> PRIOR FILING DATE: 2002-07-09
20 <160> NUMBER OF SEQ ID NOS: 39
22 <170> SOFTWARE: PatentIn version 3.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 12
26 <212> TYPE: PRT
27 <213> ORGANISM: Homo Sapiens
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36 <212> TYPE: PRT
37 <213> ORGANISM: Homo Sapiens
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44           20
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48 <211> LENGTH: 9
49 <212> TYPE: PRT
50 <213> ORGANISM: Homo Sapiens
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54 1           5
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58 <211> LENGTH: 259
59 <212> TYPE: PRT
60 <213> ORGANISM: Homo Sapiens
62 <400> SEQUENCE: 4
63 Met Ala Gly Ser Gly Ala Arg Ser Glu Glu Gly Arg Arg Gln His Ala
64 1           5           10           15

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DATE: 01/27/2006

PATENT APPLICATION: US/10/520,521

TIME: 11:52:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01272006\J520521.raw

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66 Phe Val Pro Glu Pro Phe Asp Gly Ala Asn Val Val Pro Asn Leu Trp
67          20          25          30
69 Leu His Ser Phe Glu Val Ile Asn Asp Leu Asn His Trp Asp His Ile
70          35          40          45
72 Thr Lys Leu Arg Phe Leu Lys Glu Ser Leu Arg Gly Glu Ala Leu Gly
73          50          55          60
75 Val Tyr Asn Arg Leu Ser Pro Gln Asp Gln Gly Asp Tyr Gly Thr Val
76 65          70          75          80
78 Lys Glu Ala Leu Leu Lys Ala Phe Gly Val Pro Gly Ala Ala Pro Ser
79          85          90          95
81 His Leu Pro Lys Glu Ile Val Phe Ala Asn Ser Met Gly Lys Gly Tyr
82          100          105          110
84 Tyr Leu Lys Gly Lys Ile Gly Lys Val Pro Val Arg Phe Leu Val Asp
85          115          120          125
87 Ser Gly Ala Gln Val Ser Val Val His Pro Asn Leu Trp Glu Glu Val
88          130          135          140
90 Thr Asp Gly Asp Leu Asp Thr Leu Gln Pro Phe Glu Asn Val Val Lys
91 145          150          155          160
93 Val Ala Asn Gly Ala Glu Met Lys Ile Leu Gly Val Trp Asp Thr Ala
94          165          170          175
96 Val Ser Leu Gly Lys Leu Lys Leu Lys Ala Gln Phe Leu Val Ala Asn
97          180          185          190
99 Ala Ser Ala Glu Glu Ala Ile Ile Gly Thr Asp Val Leu Gln Asp His
100          195          200          205
102 Asn Ala Ile Leu Asp Phe Glu His Arg Thr Cys Thr Leu Lys Gly Lys
103          210          215          220
105 Lys Phe Arg Leu Leu Pro Val Gly Gly Ser Leu Glu Asp Glu Phe Asp
106 225          230          235          240
108 Leu Glu Leu Ile Glu Glu Asp Pro Ser Ser Glu Glu Gly Arg Gln Glu
109          245          250          255
111 Leu Ser His
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116 <211> LENGTH: 343
117 <212> TYPE: PRT
118 <213> ORGANISM: Homo Sapiens
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124 Glu Gln Ala Thr Ala Leu Pro Ala Ser Ala Pro Ala Val Ser Gln Pro
125          20          25          30
127 Thr Ala Pro Ala Pro Ser Cys Leu Pro Lys Ala Gly Gln Val Ile Pro
128          35          40          45
130 Thr Leu Leu Arg Glu Ala Pro Phe Ser Ser Val Ile Ala Pro Thr Leu
131          50          55          60
133 Leu Cys Gly Phe Leu Phe Leu Ala Trp Val Ala Ala Glu Val Pro Glu
134 65          70          75          80
136 Glu Ser Ser Arg Met Ala Gly Ser Gly Ala Arg Ser Glu Glu Gly Arg
137          85          90          95
139 Arg Gln His Ala Phe Val Pro Glu Pro Phe Asp Gly Ala Asn Val Val

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TIME: 11:52:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01272006\J520521.raw

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140          100          105          110
142 Pro Asn Leu Trp Leu His Ser Phe Glu Val Ile Asn Asp Leu Asn His
143          115          120          125
145 Trp Asp His Ile Thr Lys Leu Arg Phe Leu Lys Glu Ser Leu Arg Gly
146          130          135          140
148 Glu Ala Leu Gly Val Tyr Asn Arg Leu Ser Pro Gln Asp Gln Gly Asp
149 145          150          155          160
151 Tyr Gly Thr Val Lys Glu Ala Leu Leu Lys Ala Phe Gly Val Pro Gly
152          165          170          175
154 Ala Ala Pro Ser His Leu Pro Lys Glu Ile Val Phe Ala Asn Ser Met
155          180          185          190
157 Gly Lys Gly Tyr Tyr Leu Lys Gly Lys Ile Gly Lys Val Pro Val Arg
158          195          200          205
160 Phe Leu Val Asp Ser Gly Ala Gln Val Ser Val Val His Pro Asn Leu
161          210          215          220
163 Trp Glu Glu Val Thr Asp Gly Asp Leu Asp Thr Leu Gln Pro Phe Glu
164 225          230          235          240
166 Asn Val Val Lys Val Ala Asn Gly Ala Glu Met Lys Ile Leu Gly Val
167          245          250          255
169 Trp Asp Thr Ala Val Ser Leu Gly Lys Leu Lys Leu Lys Ala Gln Phe
170          260          265          270
172 Leu Val Ala Asn Ala Ser Ala Glu Glu Ala Ile Ile Gly Thr Asp Val
173          275          280          285
175 Leu Gln Asp His Asn Ala Ile Leu Asp Phe Glu His Arg Thr Cys Thr
176          290          295          300
178 Leu Lys Gly Lys Lys Phe Arg Leu Leu Pro Val Gly Gly Ser Leu Glu
179 305          310          315          320
181 Asp Glu Phe Asp Leu Glu Leu Ile Glu Glu Asp Pro Ser Ser Glu Glu
182          325          330          335
184 Gly Arg Gln Glu Leu Ser His
185          340
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189 <211> LENGTH: 138
190 <212> TYPE: PRT
191 <213> ORGANISM: Homo Sapiens
193 <400> SEQUENCE: 6
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195 1          5          10          15
197 Val Pro Val Arg Phe Leu Val Asp Ser Gly Ala Gln Val Ser Val Val
198          20          25          30
200 His Pro Asn Leu Trp Glu Glu Val Thr Asp Gly Asp Leu Asp Thr Leu
201          35          40          45
203 Gln Pro Phe Glu Asn Val Val Lys Val Ala Asn Gly Ala Glu Met Lys
204          50          55          60
206 Ile Leu Gly Val Trp Asp Thr Ala Val Ser Leu Gly Lys Leu Lys Leu
207 65          70          75          80
209 Lys Ala Gln Phe Leu Val Ala Asn Ala Ser Ala Glu Glu Ala Ile Ile
210          85          90          95
212 Gly Thr Asp Val Leu Gln Asp His Asn Ala Ile Leu Asp Phe Glu His

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RAW SEQUENCE LISTING

DATE: 01/27/2006

PATENT APPLICATION: US/10/520,521

TIME: 11:52:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01272006\J520521.raw

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213          100          105          110
215 Arg Thr Cys Thr Leu Lys Gly Lys Lys Phe Arg Leu Leu Pro Val Gly
216          115          120          125
218 Gly Ser Leu Glu Asp Glu Phe Asp Leu Glu
219          130          135
222 <210> SEQ ID NO: 7
223 <211> LENGTH: 58
224 <212> TYPE: PRT
225 <213> ORGANISM: Homo Sapiens
227 <400> SEQUENCE: 7
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229 1          5          10          15
231 Glu Gln Ala Thr Ala Leu Pro Ala Ser Ala Pro Ala Val Ser Gln Pro
232          20          25          30
234 Thr Ala Pro Ala Pro Ser Cys Leu Pro Lys Ala Gly Gln Val Ile Pro
235          35          40          45
237 Thr Leu Leu Arg Glu Ala Pro Phe Ser Ser
238          50          55
241 <210> SEQ ID NO: 8
242 <211> LENGTH: 18
243 <212> TYPE: PRT
244 <213> ORGANISM: Homo Sapiens
246 <400> SEQUENCE: 8
247 Val Ile Ala Pro Thr Leu Leu Cys Gly Phe Leu Phe Leu Ala Trp Val
248 1          5          10          15
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254 <211> LENGTH: 17
255 <212> TYPE: PRT
256 <213> ORGANISM: Homo Sapiens
258 <400> SEQUENCE: 9
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260 1          5          10          15
262 His
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267 <211> LENGTH: 25
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Primer SC140 amplified by PCR encoding the complete SASPase.
274 <400> SEQUENCE: 10
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278 <210> SEQ ID NO: 11
279 <211> LENGTH: 30
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Primer SC131 amplified by PCR encoding the complete SASPase.
286 <400> SEQUENCE: 11

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RAW SEQUENCE LISTING

DATE: 01/27/2006

PATENT APPLICATION: US/10/520,521

TIME: 11:52:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01272006\J520521.raw

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293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Primer SC130 amplified by PCR encoding the truncated form of
SASPase,
297      Delta 1-84.
299 <400> SEQUENCE: 12
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304 <211> LENGTH: 20
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Primer SC134 amplified by RT-PCR.
311 <400> SEQUENCE: 13
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315 <210> SEQ ID NO: 14
316 <211> LENGTH: 20
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Primer SC135 amplified by RT-PCR.
323 <400> SEQUENCE: 14
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327 <210> SEQ ID NO: 15
328 <211> LENGTH: 25
329 <212> TYPE: PRT
330 <213> ORGANISM: Homo Sapiens
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341 <211> LENGTH: 136
342 <212> TYPE: PRT
343 <213> ORGANISM: Homo Sapiens
345 <400> SEQUENCE: 16
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347 1      5      10      15
349 Val Arg Phe Leu Val Asp Ser Gly Ala Gln Val Ser Val Val His Pro
350      20      25      30
352 Asn Leu Trp Glu Glu Val Thr Asp Gly Asp Leu Asp Thr Leu Gln Pro
353      35      40      45
355 Phe Glu Asn Val Val Lys Val Ala Asn Gly Ala Glu Met Lys Ile Leu
356      50      55      60
358 Gly Val Trp Asp Thr Ala Val Ser Leu Gly Lys Leu Lys Leu Lys Ala

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VERIFICATION SUMMARY

DATE: 01/27/2006

PATENT APPLICATION: US/10/520,521

TIME: 11:52:16

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01272006\J520521.raw

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**Raw Sequence Listing before editing,
for reference only**



PCT

RAW SEQUENCE LISTING

DATE: 01/24/2006

PATENT APPLICATION: US/10/520,521

TIME: 10:01:19

Input Set : A:\Patentin PCT EASY 032487-010.ST25.txt

Output Set: N:\CRF4\01052006\J520521.raw

3 <110> APPLICANT: Bernard, Dominique
 4 Mehul, Villejuif
 5 L'OREALL'OREAL
 7 <120> TITLE OF INVENTION: USE OF ASPARTIC PROTEASES IN COSMETICS AND THERAPEUTICS
 9 <130> FILE REFERENCE: 032487-010
 11 <140> CURRENT APPLICATION NUMBER: 10/520,521
 12 <141> CURRENT FILING DATE: 2005-01-07
 14 <150> PRIOR APPLICATION NUMBER: PCT/FR03/002151
 15 <151> PRIOR FILING DATE: 2003-07-09
 17 <150> PRIOR APPLICATION NUMBER: FR 02 08613 <151> 2002-07-09
 19 <160> NUMBER OF SEQ ID NOS: 39
 21 <170> SOFTWARE: PatentIn version 3.1

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ERRORED SEQUENCES

1036 <210> SEQ ID NO: 37
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 1038 <212> TYPE: PRT
 1039 <213> ORGANISM: Homo Sapiens
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 1046 Lys Arg Pro Glu Ile Leu Ile Phe Val Asn Gly Tyr Pro Ile Lys Phe
 1047 20 25 30
 1049 Leu Leu Asp Thr Gly Ala Asp Ile Thr Ile Leu Asn Arg Arg Asp Phe
 1050 35 40 45
 E--> 1052 Gln Val Lys Asn Ser Ile Glu Asn Gly Arg Gln Asn Me tIle Gly Val
 1053 50 55 60
 1055 Gly Gly Gly Lys Arg Gly Thr Asn Tyr Ile Asn Val His Leu Glu Ile
 1056 65 70 75 80
 1058 Arg Asp Glu Asn Tyr Lys Thr Gln Cys Ile Phe Gly Asn Val Cys Val
 1059 85 90 95
 1061 Leu Glu Asp Asn Ser Leu Ile Gln Pro Leu Leu Gly Arg Asp Asn Met
 1062 100 105 110
 1064 Ile Lys Phe Asn Ile Arg Leu Val Met Ala Gln
 1065 115 120

**Does Not Comply
Corrected Diskette Needed**

met

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/24/2006
PATENT APPLICATION: US/10/520,521 TIME: 10:01:20

Input Set : A:\Patentin PCT EASY 032487-010.ST25.txt
Output Set: N:\CRF4\01052006\J520521.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:12; Line(s) 295

VERIFICATION SUMMARY

DATE: 01/24/2006

PATENT APPLICATION: US/10/520,521

TIME: 10:01:20

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Output Set: N:\CRF4\01052006\J520521.raw

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L:1052 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:2